

1. BOSC 2017 Nominations

Self Nomination:

Yes

Nominator Information

First Name

Last Name

Nominator Title

Street Address

City

State

Postal Code

Email Address

Phone Number

Mobile Phone

Nominee Information

First Name

Charles

Last Name

Barton

Nominee Title

Dr.

Street Address

Exemption 6

Employment Information

Place of Employment/Work:

Valspar Corporation

Work Street Address

2000 Georgetowne Dr., Suite 400

Work City

Sewickley

Work State:

PA

Work Postal Code

15143

Work Phone Number

724-940-3811

Work Email Address

charles.barton@valspar.com

Sector

Industry

Qualifications**Primary Area(s) of Expertise**

Toxicology (most areas)

Computational Toxicology

Endocrinology

Human Health Risk Assessment (cancer and non-cancer risk assessment, chemical mixtures risk assessment, cumulative risk assessment, exposure assessment, chemical mode of action and toxicity pathway analysis, dose response modeling)

Committee Preference(s)

Executive Committee

Chemical Safety for Sustainability and Human Health Risk Assessment Subcommittee

Homeland Security Subcommittee

Sustainable and Healthy Communities Subcommittee

Statement of Interest

I am interested in offering my skills and knowledge to the EPA BOSC to encourage industrial progress while promoting and protecting public health.

Skills/qualifications related to committee preference(s) specified

Ph.D. in toxicology

Board certified in toxicology (DABT)

Expert in most fields of toxicology

Can conduct computational toxicology analyses

Expert in risk analysis

Can conduct risk assessments

Determine acceptable exposure levels

Base conclusions on facts not feelings and biases

Other Relevant Information

On the Board of Directors for the American Board of Toxicology

Editor-in-chief of one toxicology journal and on the editorial board of another

Served on many national and international committees as an expert in the fields of toxicology and risk assessment

CV/Resume URL

2. CV/Resume

Please upload your CV/ Resume.

[Chuck_Bartons_CV_\(31May17\).doc](#)

3.

BOSC Nomination

May 31, 2017 10:57:11 Success: Email Sent to: tracy.tom@epa.gov

4. Thank You for your Submission!

Charles Barton, Ph.D., DABT

355 Creek Pt.

Exemption 6

Summary: I work for Valspar Corporation as Global Manager of Toxicology & Risk Assessment. I have experience with a variety of industries, including academia, government, pharmaceutical industry and consumer product industry. I was the State Toxicologist of Iowa for seven years. I have been appointed to six National Academy of Sciences committees, six U.S. Pharmacopeia committees, and one ISO committee. I am a board-certified toxicologist (DABT) and I served on the Board of Directors for the American Board of Toxicology. I am Editor-in-Chief for *MOJ Toxicology* (MOJT) and an Editor for *Open Access Journal of Toxicology* (OAJT). In addition, I have served on the adjunct faculty for several universities. I am a member of over a dozen professional societies, having served as an officer in several. Furthermore, I have over 80 various publications. My professional practice has focused on 1) determining safe amounts of exposure to specific chemicals and 2) evaluating potential public and occupational health risks associated with exposure to chemicals in the environment, workplace, pharmaceuticals, and consumer and personal care products.

Professional Experience

- 2016-Present: Global Manager of Toxicology & Risk Assessment, Valspar Corporation, Sewickley, PA. As the #1 global supplier of regulated food contact coatings for metal packaging, Valspar is leading the way in the development of new materials designed to meet consumer demand for performance and safety. I lead a team of toxicologists/regulatory specialists that supports Valspar businesses throughout the world. Issues include EPA TSCA, CA Prop 65, FDA Food Contact Substance (FCS) Notifications, EU REACH/ECHA submissions/CLP, Korea REACH, China GHS, SDS hazard classifications, and much more. Many studies focus on endocrine activity due to the nature of the historical chemicals in use (e.g., BPA).
- 2012-2016: Senior Toxicologist and Project Manager, Oak Ridge Associated Universities (ORAU), Oak Ridge, TN. ORAU is a consortium of major Ph.D.-granting academic institutions which cultivates collaborative partnerships that enhance the scientific research and education enterprise of our nation. I led and conducted reviews of toxicological research on biological and environmental effects of hazardous chemicals by working closely with federal agency scientists to ensure assessments address key issues. Our clients included CDC, EPA, FDA, NIOSH, and other agencies. Our work with CDC was very varied and was often toxicological support for non-toxicology projects. Our work for EPA included the preparation of chemical specific Toxicological Reviews and derivation of RfCs/RfDs. Our work for NIOSH included the development of chemical specific Criteria Documents, derivation of IDLHs, determination of Skin Notations, determination of GHS hazard classifications, classifying chemicals based upon carcinogenicity, and development of RELs. I participated in multi-disciplinary teams to develop innovative approaches for expediting human health evaluations of occupationally important chemicals. I provided programmatic direction to technical and scientific personnel. This included development of research methods, defining scope, resolution of key issues, and developing, preparing, and implementing a Quality Assurance process and the Quality Assurance Project Plan. I ensured development of the written health assessments and summary sheets for each chemical based on federal agency specifications. I revised and reviewed standard operating procedures as appropriate based on customer and peer review. I identified business opportunities through working responsively with current and potential customers to address needs and propose solutions. I developed proposals, work plans, and budgets, and worked directly with current and potential customers to define needs and develop cost-effective strategies. I identified, directed and coordinated the activities of expert consultant subcontractors in accordance with programmatic requirements. I received an employee award for being customer focused and being a team player.
- 2010-2012: Senior Toxicologist, Georgia-Pacific, Atlanta, GA. Georgia-Pacific is one of the world's leading manufacturers of tissue, pulp, paper, packaging, building products and related chemicals. I served as an internal company consultant for toxicological issues, acted as GP's lead person for issues pertaining to national and international regulatory toxicology & compliance, and acted as the lead for a variety of emerging issues (IRIS update, TSCA reform, endocrine disruptors, NAAQS, non-animal testing, green chemistry, GHS, CLP, & EU REACH). I interacted with the product stewards to address their needs. I

assumed responsibility for performing safety assessments for chemicals used in products developed and marketed by the Corporation in support of new chemical notifications, to meet domestic and global hazard communication requirements. I coordinated aspects of chemical testing projects through laboratory and/or third party laboratories including assessment of new data to meet regulatory reporting obligations. I identified & analyzed toxicology-related legislation or regulation with a potential impact on company business, and assisted in formulation of recommendations and strategies.

- 2007-2009: Senior Scientist I, XOMA, Berkeley, CA. XOMA is a biotechnology company focused on the discovery, development and manufacturing of monoclonal antibody-based therapeutics for unmet medical needs. I oversaw preclinical and clinical studies to determine toxicity/safety of biologics, specifically therapeutic monoclonal antibodies. I took the lead role in the designing, conducting and interpreting of data from extramural pilot and GLP studies at contract toxicology labs (CROs), and other such studies as needed, in support of IND and BLA/NDA submissions to FDA and other regulatory agencies. My essential duties were: 1) designing summary and draft protocols, soliciting competitive bids, and taking part in contract lab prestudy qualifying audits and selection; 2) coordinating, monitoring and evaluating extramural pilot and GLP toxicology studies in support of XOMA's peptide and protein therapeutics programs; and 3) working with internal and external project teams, providing toxicology support and judgment. I served as the Toxicology Representative for five different monoclonal antibody therapeutic programs on the Project Teams and the Joint Core Teams with partnering companies. I served as the Team Leader for the Preclinical Subteam on one monoclonal antibody therapeutic program. I received an employee award for being a good team player on a cross-functional team.
- 2000-2007: State Toxicologist, Iowa Dept. of Public Health, Des Moines, IA. I served as a statewide public health resource providing health consultation/advice to other environmental and health-related agencies (e.g., U.S. Environmental Protection Agency and U.S. Centers for Disease Control & Prevention), as well as to health care providers, and business and industry representatives. I was also the department's spokesman in regards to toxicological concerns. I directed all health assessment and health education project activities by providing professional judgment and expert toxicological and public health guidance to assure that decisions were appropriate, timely, and reflected sound public health principles and priorities. I directed epidemiological and exposure assessment studies evaluating Iowa residents affected by hazardous waste sites. I served as an active collaborator with other key government agencies. I directed 18 federally funded programs. I helped make the Cumulative Risk Calculator that people can use for conducting quantitative risk assessments.
- 1998-2000: Research Associate, National Food Safety & Toxicology Center, Michigan State University, E. Lansing, MI. Conducted research on mercury, endotoxin from Gram-negative bacteria, and the mycotoxin aflatoxin B1. Research emphasis on the role of inflammation in potentiating chemical-induced toxicity. I supervised ~10 students and lab techs.
- 1992-1998: Teaching Assistant, University of Louisiana, Monroe, LA. While in graduate school, I received financial support through teaching the following courses: General Toxicology Lecture/Laboratory (TOX 413), Organ Specific Toxicology Lecture/Laboratory (TOX 414), and Human Physiology Lecture/Laboratory (ZOO 311 & 312).

Education

- Post-Doc in Toxicology at Michigan State University (1998-2000)
- Ph.D. in Pharmacy Sciences specializing in Toxicology from the University of Louisiana, Monroe, LA (1998)
- M.S. in Biology with an emphasis on Environmental Toxicology from the University of Louisiana, Monroe, LA (1993)
- B.S. in Biology with an emphasis on Occupational Toxicology from the University of Louisiana, Monroe, LA (1992)
- CPM (Master's Certificate in Public Management) from Drake University, Des Moines, IA (2004)

Litigation Support

- I have provided litigation support for diverse civil and criminal cases associated with vapor intrusion; household, environmental and occupational exposures; product liability; indoor-air quality; pharmacology; toxic tort; and various testing methods. My litigation support has focused on data analysis, determination of cause-effect relationships, and human health risk assessment services. Furthermore, I provided consultations regarding strategies.
- I have provided consultations involving alleged toxic exposure to asbestos, BTEX, cleaning solutions, DDT, dioxin, formaldehyde, fracking fluid, lead, mold, MTBE, nanomaterials, PCBs, pesticides, pharmaceuticals, silica, TCE and many other allegedly toxic chemicals and environmental agents.

Adjunct Faculty Positions

- 2007-2010: Lecturer, University of California at Berkeley, Berkeley, CA. I gave lectures on forensic toxicology in an undergraduate toxicology course (NST11).

- 2004-2007: Assistant Professor, Iowa State University, Ames, IA. I was an Assistant Professor (Collaborator) in the College of Veterinary Medicine at Iowa State University. This position entailed both teaching and conducting research. I gave lectures in Toxicology (TOX 501), which is a required course for graduate students in the Toxicology Interdepartmental Program. Also, I was on the graduate committee of several doctoral students.
- 2001-2007: Associate Professor, Des Moines University-Osteopathic Medical Center, Des Moines, IA. I held a joint Clinical Associate Professorship position in the College of Health Sciences and the College of Osteopathic Medicine at Des Moines University-Osteopathic Medical Center. The position had two major duties: teaching and conducting research. I received several grants to examine the role of neutrophil-derived proteases in causing liver injury subsequent to exposure to toxic mold. Also, I investigated the toxicity of several herbal medicines and environmental contaminants. Although I was a frequent guest lecturer in many different medical courses, I was the primary lecturer for the following two courses: Occupational and Environmental Health (DHM 651) and Bioterrorism Preparedness and Response (DHM 759).

Appointments

- American Board of Toxicology
 - Board of Directors, 2015-2017
- National Academy of Sciences / National Research Council
 - Assembled Chemical Weapons Committee (I was appointed in 2003 to this committee to assist in the design of facilities for the destruction of weapons of mass destruction.)
 - Review and Assess the Proposal for Design and Operation of Designated Chemical Agent Destruction Pilot Plant at Pueblo Committee, 2006
 - Committee to Review and Assess Industrial Hygiene Standards and Practices at Tooele Chemical Agent Disposal Facility, 2006
 - Committee to Review Assembled Chemical Weapons Alternatives Chemical Agent Secondary Waste Disposal and Regulatory Requirements
 - Assembled Chemical Weapons Alternatives Committee #3, 2007
 - Promoting Safe Chemical Management in Developing Countries Committee, 2008
- United States Pharmacopoeia
 - Toxicology Expert Committee, 2010-2015
 - General Toxicology and Medical Device Biocompatibility Expert Committee, 2005-2010
 - Heavy Metals Advisory Panel, 2006-2015
 - Extended-Release Dietary Supplements Expert Panel, 2012-2015
 - Talc/Asbestos Expert Panel, 2012-2015
 - Elemental Impurities Expert Panel, 2010-2020
 - Recipient of the 2015 USP Award for an Innovative Response to a Public Health Challenge
- International Organization for Standardization (ISO) Technical Committee for Nanotechnologies (TC 229)

Certifications

- Certified Toxicologist - Diplomate of the American Board of Toxicology (Initial Certification: 2001; Recertification: 2006, 2011, & 2016)
- Certified in Public Management
- Certified in Public Health Assessment by the Agency for Toxic Substances & Disease Registry (ATSDR) / Centers for Disease Control & Prevention (CDC)
- Certified in Health Education by the Agency for Toxic Substances & Disease Registry (ATSDR) / Centers for Disease Control & Prevention (CDC)
- Certified in Risk Assessment by the U.S. Environmental Protection Agency
- Certified in Emergency Response to Terrorism by the Federal Emergency Management Agency
- Certified in Emergency Response Incident Command by the Federal Emergency Management Agency
- Certified in Hazardous Waste Operations and Emergency Response by U.S. Environmental Protection Agency

Foreign Language

- Mandarin Chinese

Editorial Boards

- Editor-in-Chief for *MOJ Toxicology* (MOJT)
- Editor for *Open Access Journal of Toxicology* (OAJT)

Professional Societies (past & present)

American Academy of Clinical Toxicology

American Association for the Advancement of Science

American College of Toxicology

- Representative for ACT at the SOT annual meetings, 2001 and 2002
- Chairperson of the Student Poster Discussion Session, 2002
- Candidate for the Nominating Committee, 2003/2004
- Candidate for Councilor, 2005/2006
- *ad hoc* Regulatory Committee, 2006/2007
- Program Committee, 2007

Central States Chapter of the Society of Toxicology

- Vice-President & President-Elect, 2004
- President, 2005

Food Safety Specialty Section, Society of Toxicology

International Society for the Study of Xenobiotics

Mechanisms of Toxicity Specialty Section, Society of Toxicology

Michigan Chapter of the Society of Toxicology

National Environmental Health Association

Northern California Chapter of the Society of Toxicology

- Secretary, 2008-2010

Risk Assessment Specialty Section, Society of Toxicology

Society for Risk Analysis

Society of Toxicology

- Regulatory & Legislative Affairs Committee, 2007-2010
- Chairperson of the Inflammation Section, 2000
- Chairperson of the Mechanisms of Hepatotoxicity Session, 2004
- Minority Program Mentor, 2002
- Student Advisory Committee Expert, 2002
- Animals in Research Committee, appointed 2002-2006
- Chemical/Biological Terrorism Resource Registry, 2004-present

South Central Chapter of the Society of Toxicology

Southeast Chapter of the Society of Toxicology

- Executive Committee, 2011-Present

Technical Association of the Pulp and Paper Industry

- TAPPI Representative to US TAG ISO/TC 229 Nanotechnologies Task Group on Nanocellulose
- Expert on the TAPPI International Nanotechnology Division
- Expert on the TAPPI EHS Standards for Nanocellulose Group

Soft Skills

- I speak, write, and listen effectively, organize my thoughts logically, and explain everything clearly.
- Strong computer and technical literacy
- Strong problem-solving/creativity skills
- Great interpersonal abilities, including relationship-building and relationship-management
- Able to work well with others while pursuing a common goal
- I am cultural-sensitive and able to build rapport with others in a multicultural environment.
- Strong planning and organizing skills
- Strong leadership and management skills
- I am adaptive and flexible, open to new ideas and concepts.
- I demonstrate professionalism and a strong work ethic.

Publications

Peer-Reviewed Research Articles

- 1) DeLeo, P. C., Pawlowski, S., Barton, C., and Fort, D. J. (2011). Comment on "Effects of triclocarban, triclosan, and methyl triclosan on thyroid hormone action and stress in frog and mammalian culture systems." *Environ. Sci. Technol.* 45, 10283-4.
- 2) Abernethy, D. R., Destefano, A. J., Cecil, T. L., Zaidi, K., Williams, R. L., and USP Metal Impurities Advisory Panel. (2010). Metal impurities in food and drugs. *Pharm. Res.* 27, 750-755.
- 3) Luyendyk, J. P., Copple, B. L., Barton, C. C., Ganey, P. E., and Roth, R. A. (2003). Augmentation of Aflatoxin B1 Hepatotoxicity by Endotoxin: Involvement of Endothelium and the Coagulation System. *Toxicol. Sci.* 72, 171-181.
- 4) Ganey, P. E., Barton, Y. W., Kinser, S., Sneed, R. A., Barton, C. C., and Roth, R. A. (2001). Involvement of cyclooxygenase-2 in the potentiation of allyl alcohol-induced liver injury by bacterial lipopolysaccharide. *Toxicol.*

Appl. Pharmacol. 174, 113-121.

- 5) Barton, C. C., Barton, E. X., Ganey, P. E., Kunkel, S. L., and Roth, R. A. (2001). Bacterial lipopolysaccharide enhances aflatoxin B₁-hepatotoxicity in rats by a mechanism that depends on Tumor Necrosis Factor- α . *Hepatology* 33, 66-73.
- 6) Barton, C. C., Ganey, P. E., and Roth, R. A. (2000). Lipopolysaccharide augments aflatoxin B₁-induced liver injury through neutrophil-dependent and independent mechanisms. *Toxicological Sciences* 58, 208-215.
- 7) Barton, C. C., Hill, D. A., Yee, S. B., Barton, E. X., Ganey, P. E., and Roth, R. A. (2000). Bacterial lipopolysaccharide exposure augments aflatoxin B₁-induced liver injury. *Toxicological Sciences* 55, 444-452.
- 8) Barton, C. C., Bucci, T. J., Lomax, L. G., Warbritton, A., and Mehendale, H. M. (2000). Stimulated pulmonary cell hyperplasia underlies resistance to α -naphthylthiourea. *Toxicology* 143, 167-181.
- 9) Yee, S. B., Kinser, S., Hill, D. A., Barton, C. C., Hotchkiss, J. A., Harkema, J. R., Ganey, P. E., and Roth, R. A. (2000). Synergistic hepatotoxicity from coexposure to bacterial endotoxin and the pyrrolizidine alkaloid monocrotaline. *Toxicology and Applied Pharmacology* 166, 173-185.

Published Abstracts

- 1) Wagoner, J. L., Barton, E. X., Klein, D. F., Newton, T. T., Roth, R. A., Mortensen, L. H., and Barton, C. C. (2003). Endotoxin Potentiates Aflatoxin B₁-Hepatocellular Injury by a Mechanism which is Dependent upon Kupffer Cells. *Toxicological Sciences* 63, No. 1-Suppl.
- 2) Ganey, P. E., Barton, Y. W., Kinser, S., Sneed, R. A., Barton, C. C., and Roth, R. A. (2001). Involvement of cyclooxygenase-2 in the potentiation of allyl alcohol-induced liver injury by bacterial lipopolysaccharide. *Toxicological Sciences* 60, No. 1-Suppl.
- 3) Rumbelha, W. K., Barton, C. C., and Roth, R. A. (2001). Role of neutrophils in endotoxin-potentiated mercury-induced nephrotoxicity. *Toxicological Sciences* 60, No. 1-Suppl.
- 4) Barton, C. C., Barton, E. X., Ganey, P. E., and Roth, R. A. (2000). Endotoxin potentiates aflatoxin B₁-induced hepatotoxicity through a TNF- α -dependent mechanism. *Toxicological Sciences* 54 (1), 140.
- 5) Barton, C. C., Ganey, P. E., and Roth, R. A. (1999). Development of liver injury in rats treated with aflatoxin B₁ and endotoxin, and protection by neutrophil depletion. *Toxicological Sciences* 48, No. 1-Suppl., p. 55.
- 6) Barton, C. C., Bucci, T. J., Lomax, L. G., Warbritton, A., and Mehendale, H. M. (1998). Stimulation of cell division and tissue repair may explain α -naphthylthiourea resistance. *Toxicological Sciences* 42, No. 1-Suppl., p. 348.
- 7) Barton, C. C., and Mehendale, H. M. (1997). Stimulation of tissue repair is consistent with α -naphthylthiourea autoprotection: inhibition abolishes autoprotection. *Fundamental and Applied Toxicology* 36, No 1, Part 2 (Suppl.), p. 125.
- 8) Barton, C. C., and Mehendale, H. M. (1997). α -Naphthylthiourea autoprotection cannot be explained by enhanced tissue repair or type II pneumocyte proliferation (or can it?). *International Society for the Study of Xenobiotics Proceedings* Vol. 12, p. 72.
- 9) Barton, C. C., and Mehendale, H. M. (1996). α -Naphthylthiourea Autoprotection. *Fundamental and Applied Toxicology* 30, No 1, Part 2 (Suppl.), p. 133.
- 10) Barton, C. C. and Mehendale, H. M. (1996). Pneumocellular proliferation and tissue repair may underlie α -naphthylthiourea autoprotection. *FASEB J.* 10, No. 3 (Suppl.), p. A355.

Book Chapters

- 1) Barton, C. C. and Weber, L. (2016). "Systemic Effects: Cardiovascular and Renal Toxicity" in Toxicology Principles for the Industrial Hygienist – 2nd Edition. (In preparation).
- 2) Barton, C. C. and Weber, L. (2016). "Toxicology of Sensory Organs" in Toxicology Principles for the Industrial Hygienist – 2nd Edition. (In preparation).
- 3) Barton, C. C., Still, K., and Weber, L. (2016). "Evaluation of Industrial/Commercial Materials" in Toxicology Principles for the Industrial Hygienist – 2nd Edition. (In preparation).
- 4) Barton, C. C. (2015). "Chapter 77: Fibrogenic Dusts" in Hamilton and Hardy's Industrial Toxicology – 6th Edition, Ed. Raymond Harbison, Mosby, St. Louis, MO.
- 5) Barton, C. C. (2015). "Chapter 78: Mixed Dusts" in Hamilton and Hardy's Industrial Toxicology – 6th Edition, Ed. Raymond Harbison, Mosby, St. Louis, MO.
- 6) Barton, C. C. (2014). "Tetrachloroethylene" in Encyclopedia of Toxicology – 3rd Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 7) Barton, C. C. (2014). "Trichloroethylene" in Encyclopedia of Toxicology – 3rd Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 8) Barton, C. C. (2014). "Benzene" in Encyclopedia of Toxicology – 3rd Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 9) Barton, C. C. (2014). "EDTA" in Encyclopedia of Toxicology – 3rd Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 10) Barton, C. C. (2014). "CCA-Treated Wood" in Encyclopedia of Toxicology – 3rd Edition, Ed. Philip Wexler,

Elsevier, San Diego, CA.

- 11) Barton, C. C. (2014). "Health Assessments" in Encyclopedia of Toxicology – 3rd Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 12) Barton, C. C. (2009). "Environmental Toxicology – Wildlife" in Information Resources in Toxicology – 4th Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 13) Barton, C. C. (2009). "Environmental Toxicology - Terrestrial" in Information Resources in Toxicology – 4th Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 14) Barton, C. C. (2009). "Environmental Toxicology – Hazardous Waste" in Information Resources in Toxicology – 4th Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 15) Barton, C. C. (2009). "Disaster Preparedness and Response" in Information Resources in Toxicology – 4th Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 16) Barton, C. C., and Mehendale, H. M. (2005). "EDTA" in Encyclopedia of Toxicology – 2nd Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 17) Barton, C. C., and Newton, T. T. (2005). "CCA-Treated Wood" in Encyclopedia of Toxicology – 2nd Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 18) Barton, C. C., and Parham, A. G. (2005). "Health Assessments" in Encyclopedia of Toxicology – 2nd Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 19) Barton, C. C., and Parham, A. G. (2005). "Public Health Service" in Encyclopedia of Toxicology – 2nd Edition, Ed. Philip Wexler, Elsevier, San Diego, CA.
- 20) Barton, C. C., and Mehendale, H. M. (1998). "EDTA" in Encyclopedia of Toxicology – 1st Edition, Ed. Philip Wexler, Academic Press, San Diego, CA.

Books

- 1) National Academy of Sciences' National Research Council (2010). Chemical Laboratory Safety and Security - A Guide to Prudent Chemical Management. The National Academies Press, Washington, D.C.
- 2) National Academy of Sciences' National Research Council (2008). Review of Secondary Waste Disposal Planning for the Blue Grass and Pueblo Chemical Agent Destruction Pilot Plants. The National Academies Press, Washington, D.C.
- 3) National Academy of Sciences' National Research Council (2005). Interim Design Assessment for the Pueblo Chemical Agent Destruction Pilot Plant. The National Academies Press, Washington, D.C.
- 4) National Academy of Sciences' National Research Council (2005). Interim Design Assessment for the Blue Grass Chemical Agent Destruction Pilot Plant. The National Academies Press, Washington, D.C.
- 5) IDNR Animal Feeding Operations Technical Workgroup (2004). Animal Feeding Operations Technical Workgroup Report on: Air Emissions Characterization, Dispersion Modeling, and Best Management Practices. State of Iowa, Des Moines, Iowa.
- 6) Barton, C. C. (1998). Role of tissue repair and cell division in the pathophysiology of lung disease. Bell & Howell Co., Ann Arbor, MI. (Ph.D. dissertation on microfilm).

Peer-Reviewed Federal Government Publications

- 1) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation – Buchanan Bulk Oil: Ma & Pa Stores, Oskaloosa, Mahaska County, Iowa. Atlanta: US Department of Health and Human Services; September 30, 2006.
- 2) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation – Iowa City Former Manufactured Gas Plant Site, Iowa City, Johnson County, Iowa. Atlanta: US Department of Health and Human Services; September 14, 2006.
- 3) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation – Tails a Waggin' Pet Resort, Cedar Rapids, Linn County, Iowa. Atlanta: US Department of Health and Human Services; August 29, 2006.
- 4) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation – Pesticide Contamination of Residential Soil, Des Moines, Polk County, Iowa. Atlanta: US Department of Health and Human Services; December 5, 2005.
- 5) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation – Allied Products Corporation Targeted Brownfields Assessment, Charles City, Floyd County, Iowa. Atlanta: US Department of Health and Human Services; August 8, 2005.
- 6) Colboth, S., Schmitz, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation: Review of On-Site Monitoring Data during the Removal Action at Le Mars Coal Gas Site, Le Mars, Plymouth County, IA. CERCLIS No. IA0001032556. Atlanta: US Department of Health and Human Services; July 27, 2005.
- 7) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation – Targeted Brownfields Assessment: Rolfe Above Ground Storage Tank Petroleum Bulk Plant, Rolfe, Pocahontas County, Iowa. Atlanta: US Department of Health and Human Services; May 20, 2005.
- 8) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health

Consultation: Sub-Slab Gas and Air Sampling Data at Alcoa – Davenport Works, Riverdale, Scott County, Iowa. Cerclis No. IAD005270160. Atlanta: US Department of Health and Human Services; April 6, 2005.

- 9) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation: Silver City Petroleum Release and Municipal Wells, Silver City, Mills County, Iowa. Atlanta: US Department of Health and Human Services; April 4 2005.
- 10) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation: Mid-America Tanning Company, Sergeant Bluff, Woodbury County, Iowa. Cerclis No. IAD085824688. Atlanta: US Department of Health and Human Services; February 17, 2005.
- 11) Schmitz, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Assessment: Railroad Avenue Groundwater Contamination, West Des Moines, Polk County, IA. Cerclis No. IA0001610963. Atlanta: US Department of Health and Human Services; March 5, 2004.
- 12) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation: Hills, Iowa, Perchlorate Groundwater Contamination Site, Hills, Johnson County, Iowa. Cerclis No. IAN000704368. Atlanta: US Department of Health and Human Services; Jun. 22, 2004.
- 13) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation: Climbing Hill Groundwater Contamination Site, Climbing Hill, Woodbury County, Iowa. Atlanta: US Department of Health and Human Services; Oct. 18, 2004.
- 14) Schmitz, S., Colboth, S., and Barton, C. C. Agency for Toxic Substances and Disease Registry. Public Health Consultation: Jet Gas Spill Site, Lowell, Henry County, Iowa. Atlanta: US Department of Health and Human Services; Oct. 21, 2004.
- 15) Barton, C. C., Johnson, J., and Toney, S. Agency for Toxic Substances and Disease Registry. Health Consultation: Review of Public Health Implications of Alternative Removal Actions at the Le Mars Coal Gas Site, Le Mars, Plymouth County, Iowa. Cerclis No. IA0001032556. Atlanta: US Department of Health and Human Services; Sept. 16, 2003.
- 16) Barton, C. C., Johnson, J., and Toney, S. Agency for Toxic Substances and Disease Registry. Health Consultation: Review of Public Health Implications of Soil Gas and Indoor Air Sampling at the Le Mars Coal Gas Site, Le Mars, Plymouth County, Iowa. Cerclis No. IA0001032556. Atlanta: US Department of Health and Human Services; Sept. 19, 2003.
- 17) Barton, C. C., and Johnson, J. Agency for Toxic Substances and Disease Registry. Health consultation for the removal of mercury seal regulators by Mid-American Energy Company (MEC) in Iowa, Des Moines, Polk County, Iowa. Atlanta: US Department of Health and Human Services; Aug. 7, 2002.
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